AMENDMENT

Docket No: 80174(302730)

The following <u>Listing of the Claims</u> will replace all prior versions and all prior listings of the claims in the present application:

Listing of The Claims:

Claim 1 (Cancelled)

Claim 2 (Withdrawn): A method for detecting the genotype in a nucleic acid sample, comprising the following step (b):

- (b) analyzing two or more polymorphisms selected from the group consisting of the following (7) to (11) in a nucleic acid sample:
 - (7) polymorphism at the base number position 1186 of the thrombospondin 4 gene;
- (8) polymorphism at the base number position -863 of the tumor necrosis factor-α gene;
 - (9) polymorphism at the base position 2136 of the thrombomodulin gene;
 - (10) polymorphism at the base position 5713 of the thrombopoietin gene;
- (11) (7) polymorphism at the base position 994 of the platelet-activating factor acetylhydrolase gene.

Claim 3 (Withdrawn): A method for detecting the genotype in a nucleic acid sample, comprising the following step (c):

- (c) analyzing two or more polymorphisms selected from the group consisting of the following (12) to (17) in a nucleic acid sample:
 - (12) polymorphism at the base number position 561 of the E-selectin gene;
- (13) polymorphism at the base number position 2445 of the fatty acid binding protein 2 gene;
 - (14) polymorphism at the base position 1018 of the glycoprotein Ibα gene;

(15) polymorphism at the base position -668 of the plasminogen activator inhibitor-1 gene;

- (16) polymorphism at the base position 584 of the paraoxonase gene;
- (17) polymorphism at the base position 3932 of the aplipoprotein E gene.

Claim 4 (Withdrawn): A method for detecting the genotype in a nucleic acid sample, comprising the following step (d):

- (d) analyzing two or more polymorphisms selected from the group consisting of the following (18) to (22) in a nucleic acid sample:
- (18) polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;;
- (19) polymorphism at the base number position –482 of the apolipoprotein C-III gene;
 - (20) polymorphism at the base position 584 of the paraoxonase gene;
 - (21) polymorphism at the base position 1018 of the glycoprotein Ibα gene;
 - (22) polymorphism at the base position 3932 of the aplipoprotein E gene.

Claim 5 (Currently amended): A method for diagnosing the risk of restenosis after coronary angioplasty in a human subject, comprising the following steps (i) to (iii):

- (i) analyzing two or more the <u>following</u> polymorphisms <u>(1), (3) and (4)</u> selected from the group consisting of the following <u>(1)</u> to <u>(6)</u> in a <u>human</u> nucleic acid sample;
- (1) polymorphism at the base number position 3932 (the 3932nd base of SEQ ID NO:1) of the human apolipoprotein E gene ;
 - (2) polymorphism at the base number position 1648 of the glycoprotein la gene;
- (3) polymorphism at the base number position -863 (the 197th base of SEQ ID NO:3) of the human tumor necrosis factor- α gene;
- (4) polymorphism at the base number position 825 (the 831st base of SEQ ID NO:4)of the human G-protein β3 subunit gene;

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- (5) polymorphism at the base number position 482 of the apolipoprotein C-III gene; and
 - -(6) polymorphism at the base number position -6 of the angiotensinogen gene;
- (ii) determining, based on the information about polymorphism which was obtained in the step (i), the genotype of the nucleic acid sample; and
- (iii) assessing, based on the genotype determined, a genetic risk of restenosis after coronary angioplasty.

Claim 6 (Withdrawn): A method for diagnosing the risk of restenosis after coronary angioplasty, comprising the following steps (iv) to (vi):

- (iv) analyzing two or more polymorphisms selected from the group consisting of the following (7) to (11) in a nucleic acid sample;
- (7) polymorphism at the base number position 1186 of the thrombospondin 4 gene;(8) polymorphism at the base number position -863 of the tumor necrosis factor-α gene;
- (9) polymorphism at the base number position 2136 of the thrombomodulin gene;
- (10) polymorphism at the base number position 5713 of the thrombopoietin gene; and
- (11) polymorphism at the base number position 994 of the platelet-activating factor acetylhydrolase gene;
- (v) determining, based on the information about polymorphism which was obtained in the step (iv), the genotype of the nucleic acid sample; and
- (vi) assessing, based on the genotype determined, a genetic risk of restenosis after coronary angioplasty.

Claim 7 (Withdrawn): A method for diagnosing the risk of restenosis after coronary angioplasty, comprising the following steps (vii) to (ix):

- (vii) analyzing two or more polymorphisms selected from the group consisting of the following (12) to (17) in a nucleic acid sample;
 - (12) polymorphism at the base number position 561 of the E-selectin gene;

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- (13) polymorphism at the base number position 2445 of the fatty acid-binding protein 2 gene;
- (14) polymorphism at the base number position 1018 of the glycoprotein lb.alpha. gene;
- (15) polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;
- (16) polymorphism at the base number position 584 of the paraoxonase gene; and (17) polymorphism at the base number position 3932 of the apolipoprotein E gene; (viii) determining, based on the information about polymorphism which was obtained in the step (vii), the genotype of the nucleic acid sample; and
- (ix) assessing, based on the genotype determined, a genetic risk of restenosis after coronary angioplasty.

Claim 8 (Withdrawn): A method for diagnosing the risk of restenosis after coronary angioplasty, comprising the following steps (x) to (xii):

- (x) analyzing two or more polymorphisms selected from the group consisting of the following (18) to (22) in a nucleic acid sample;
- (18) polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;
- (19) polymorphism at the base number position -482 of the apolipoprotein C-III gene;
 - (20) polymorphism at the base number position 584 of the paraoxonase gene;
- (21) polymorphism at the base number position 1018 of glycoprotein lb.alpha. gene; and
- (22) polymorphism at the base number position 3932 of the apolipoprotein E gene; (xi) determining, based on the information about polymorphism which was obtained in the step (x), the genotype of the nucleic acid sample; and

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(xii) assessing, based on the genotype determined, a genetic risk of restenosis after coronary angioplasty.

Claim 9 (Withdrawn): A kit for detecting the genotype, comprising two or more of nucleic acids selected from the group consisting of the following (1) to (6):

- (1) a nucleic acid for analyzing polymorphism at the base number position 3932 of the apolipoprotein E gene;
- (2) a nucleic acid for analyzing polymorphism at the base number position 1648 of the glycoprotein la gene;
- (3) a nucleic acid for analyzing polymorphism at the base number position -863 of the tumor necrosis factor-.alpha. gene;
- (4) a nucleic acid for analyzing polymorphism at the base number position 825 of G-protein .beta.3 subunit gene;
- (5) a nucleic acid for analyzing polymorphism at the base number position -482 of the apolipoprotein C-III gene; and
- (6) a nucleic acid for analyzing polymorphism at the base number position -6 of the angiotensinogen gene.

Claim 10 (Withdrawn): A kit for detecting the genotype, comprising two or more of nucleic acids selected from the group consisting of the following (7) to (11):

- (7) a nucleic acid for analyzing polymorphism at the base number position 1186 of the thrombospondin 4 gene;
- (8) a nucleic acid for analyzing polymorphism at the base number position -863 of the tumor necrosis factor-.alpha. gene;
- (9) a nucleic acid for analyzing polymorphism at the base number position 2136 of the thrombomodulin gene;
- (10) a nucleic acid for analyzing polymorphism at the base number position 5713 of the thrombopoietin gene; and

(11) a nucleic acid for analyzing polymorphism at the base number position 994 of the platelet-activating factor acetylhydrolase gene.

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- Claim 11 (Withdrawn): A kit for detecting the-genotype, comprising two or more of nucleic acids selected from the group consisting of the following (12) to (17):
- (12) a nucleic acid for analyzing polymorphism at the base number position 561 of the E-selectin gene;
- (13) a nucleic acid for analyzing polymorphism at the base number position 2445 of the fatty acid-binding protein 2 gene;
- (14) a nucleic acid for analyzing polymorphism at the base number position 1018 of glycoprotein lb.alpha. gene;
- (15) a nucleic acid for analyzing polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;
- (16) a nucleic acid for analyzing polymorphism at the base number position 584 of the paraoxonase gene; and
- (17) a nucleic acid for analyzing polymorphism at the base number position 3932 of the apolipoprotein E gene.
- Claim 12 (Withdrawn): A kit for detecting the genotype, comprising two or more of nucleic acids selected from the group consisting of the following (18) to (22):
- (18) a nucleic acid for analyzing polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;
- (19) a nucleic acid for analyzing polymorphism at the base number position -482 of the apolipoprotein C-III gene;
- (20) a nucleic acid for analyzing polymorphism at the base number position 584 of the paraoxonase gene;
- (21) a nucleic acid for analyzing polymorphism at the base number position 1018 of the glycoprotein lb.alpha. gene; and

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(22) a nucleic acid for analyzing polymorphism at the base number position 3932 of the apolipoprotein E gene.

Claim 13 (Withdrawn): Fixed nucleic acids comprising the following two or more nucleic acid selected from the group consisting of the following (1) to (7) fixed to an insoluble support:

- (1) a nucleic acid for analyzing polymorphism at the base number position 3932 of the apolipoprotein E gene;
- (2) a nucleic acid for analyzing polymorphism at the base number position 1648 of the glycoprotein la gene;
- (3) a nucleic acid for analyzing polymorphism at the base number position -863 of the tumor necrosis factor-.alpha. gene;
- (4) a nucleic acid for analyzing polymorphism at the base number position 825 of Gprotein .beta.3 subunit gene;
- (5) a nucleic acid for analyzing polymorphism at the base number position -482 of the apolipoprotein C-III gene; and
- (6) a nucleic acid for analyzing polymorphism at the base number position -6 of the angiotensinogen gene.

Claim 14 (Withdrawn): Fixed nucleic acids comprising the following two or more nucleic acid selected from the group consisting of the following (7) to (11) fixed to an insoluble support:

- (7) a nucleic acid for analyzing polymorphism at the base number position 1186 of the thrombospondin 4 gene;
- (8) a nucleic acid for analyzing polymorphism at the base number position -863 of the tumor necrosis factor-.alpha. gene;
- (9) a nucleic acid for analyzing polymorphism at the base number position 2136 of the thrombomodulin gene;

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- (10) a nucleic acid for analyzing polymorphism at the base number position 5713 of the thrombopoietin gene; and
- (11) a nucleic acid for analyzing polymorphism at the base number position 994 of the platelet-activating factor acetylhydrolase gene.
- Claim 15 (Withdrawn): Fixed nucleic acids comprising the following two or more nucleic acid selected from the group consisting of the following (12) to (17) fixed to an insoluble support:
- (12) a nucleic acid for analyzing polymorphism at the base number position 561 of the E-selectin gene;
- (13) a nucleic acid for analyzing polymorphism at the base number position 2445 of the fatty acid-binding protein 2 gene;
- (14) a nucleic acid for analyzing polymorphism at the base number position 1018 of glycoprotein lb.alpha. gene;
- (15) a nucleic acid for analyzing polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;
- (16) a nucleic acid for analyzing polymorphism at the base number position 584 of the paraoxonase gene; and
- (17) a nucleic acid for analyzing polymorphism at the base number position 3932 of the apolipoprotein E gene.
- Claim 16 (Withdrawn): Fixed nucleic acids comprising the following two or more nucleic acid selected from the group consisting of the following (18) to (22) fixed to an insoluble support:
- (18) a nucleic acid for analyzing polymorphism at the base number position -668 of the plasminogen activator inhibitor-1 gene;
- (19) a nucleic acid for analyzing polymorphism at the base number position -482 of the apolipoprotein C-III gene;

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(20) a nucleic acid for analyzing polymorphism at the base number position 584 of the paraoxonase gene;

- (21) a nucleic acid for analyzing polymorphism at the base number position 1018 of the glycoprotein lb.alpha. gene; and
- (22) a nucleic acid for analyzing polymorphism at the base number position 3932 of the apolipoprotein E gene.

Claim 17 (New): The method according to claim 5, wherein the following polymorphism (2) is additionally analyzed in the step (i);

(2) polymorphism at the base number position 1648 (the 1648th base of SEQ ID NO:2) of the human glycoprotein la gene.

Claim 18 (New): The method according to claim 5, wherein the following polymorphism (5) is additionally analyzed in the step (i);

(5) polymorphism at the base number position -482 (the 936th base of SEQ ID NO: 6) of the human apolipoprotein C-III gene.

Claim 19 (New): The method according to claim 5, wherein the following polymorphism (6) is additionally analyzed in the step (i);

(6) polymorphism at the base number position -6 (the 463rd base of SEQ ID NO: 7) of the human angiotensinogen gene.

Claim 20 (New): A method for diagnosing the risk of restenosis after coronary angioplasty in a Japanese man, comprising the following steps (i) to (iii):

- (i) analyzing the following polymorphisms (1), (3) and (4) in a human nucleic acid sample;
- (1) polymorphism at the base number position 3932 (the 3932nd base of SEQ ID NO:1) of the human apolipoprotein E gene;

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- (3) polymorphism at the base number position -863 (the 197th base of SEQ ID NO:3)of the human tumor necrosis factor- α gene;
- (4) polymorphism at the base number position 825 (the 831st base of SEQ ID NO:4)of the human G-protein β 3 subunit gene;
- (ii) determining, based on the information about polymorphism which was obtained in the step (i), the genotype of the nucleic acid sample; and
- (iii) assessing, based on the genotype determined, a genetic risk of restenosis after coronary angioplasty.